



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 2001241321 A

(43) Date of publication of application: 07.09.2001

(51) Int. Cl F01N 3/24

B01D 53/94, B01J 23/42, B01J 23/63, B01J 23/58, B01J 23/652,  
 B01J 23/656, B01J 23/89, B01J 29/44, B01J 29/46, B01J 29/74,  
 B01J 29/78, B01J 35/02, B01J 35/04, F01N 3/02, F01N 3/08,  
 F01N 3/20, F01N 3/28

(21) Application number: 2000052825

(22) Date of filing: 29.02.2000

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(54) EXHAUST GAS EMISSION CONTROL DEVICE  
 FOR INTERNAL COMBUSTION ENGINE AND  
 EXHAUST GAS EMISSION CONTROL  
 METHOD

reduction purified by HC concentration fluctuation.

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(57) Abstract:

PROBLEM TO BE SOLVED: To eliminate PM (particulates) as well as to treat NOx at high efficiency under an oxygen excessive environment of a diesel engine.

SOLUTION: Oxidizing catalyst 4 is disposed in an upstream casing 2a, and a hollow cylindrical DPF 50 whose one end is closed for collecting PM is disposed in a downstream casing 2b. The oxidizing catalyst 4 has a HC adsorbing catalyst, a function for generating NO<sub>2</sub> by oxidizing NO, and an absorbing performance of HC. The DPF 50 is composed of an inner layer part 51 and an outer layer part 52, the inner layer part 51 has a HC adsorbing catalyst, and the outer layer part 52 has a reduction component concentration fluctuating type NOx catalyst. The PM of the DPF 50 is eliminated by NO<sub>2</sub> generated by the oxygen catalyst in association with temperature change during operation, and NOx of the outer layer part 52 is discharge

